Korea Air Simulation Center

Maj John Allison

Director

Korea Air Simulation Center

15-17 Oct 2003

Overview

- UFL ’03
- FY ’04 M&S Roadmap
  - Yama Sakura ’04
  - RSO&I ’04
  - UFL ’04
- JQUAD+
- AOC Training
- KASC Roadmap
- Summary

UFL '03

- M&S history was made at UFL '03
  - 100% availability of the JTC
  - Never had to revert back to a save
- What happened?
  - Detailed Planning + Mature Software = Success
  - Strong Load Test
  - Everyone worked as a single team
  - The software worked

UFL '03

- Lessons Learned
  - M&S planning must include 2nd order C4ISR system integration
    - Just planning to get the bytes to the C4ISR system isn't enough
    - Must make sure the right information gets to the right person
  - Confederation is only as good as the weakest model
    - Still room to improve stability, robustness, and inter-model integration

FY ’04 Roadmap

UFL ’03 → YS → RSO&I → UFL

JTC ’02	JTC ’03	JTC ’04	JTC ’04
• AWSIM 2.5.0.4	• AWSIM 2.6	• AWSIM 2.7	• AWSIM 2.7
• AFSERS	• ATI ?	• MDST (Non-JTC)	• AFSERS
• JQUAD	• IMCN ?	• ATI	• JQUAD
• MDST	• CBS 1.8	• IMCN	• MDST
• ATI	• RESA	• CBS 1.8	• ATI
• IMCN	• AATK	• RESA	• IMCN
• CBS 1.6	• TACSIM	• AATK	• CBS 1.8
• RESA	• JQUAD ?	• TACSIM	• RESA
• WALTS		• GES (Non-JTC)	• WALTS
• LOGSIM		• JDLM (Non-JTC)	• LOGSIM
• AATK		• JQUAD	• AATK
• MTWS			• MTWS
• TACSIM			• TACSIM

Not necessarily a

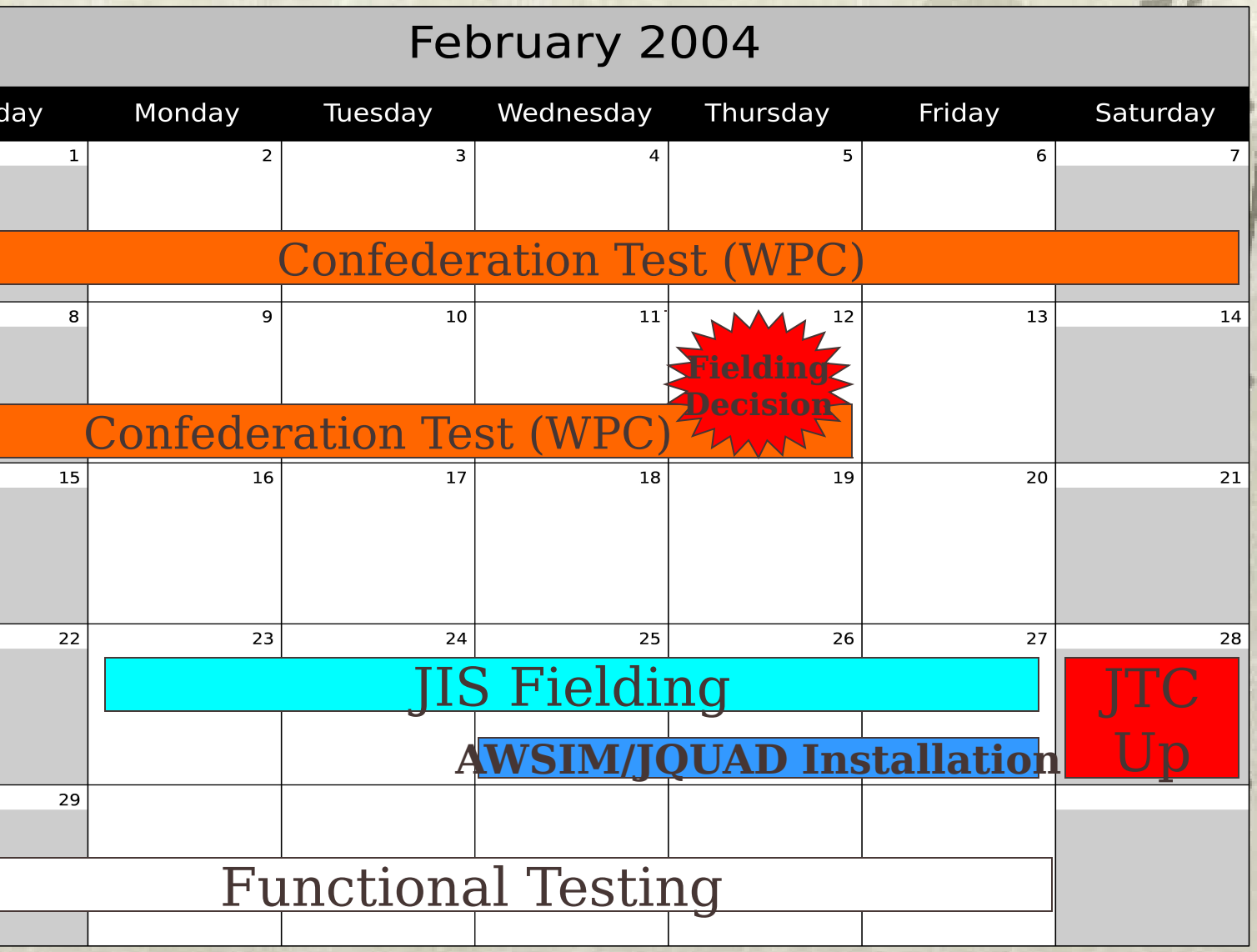
FY ’04 Risk Assessment

- Yama Sakura – LOW
  - Low threat environment
  - AWSIM 2.6 has some exercise experience
- RSO&I – MED/HIGH
  - JTC 04 First Use Event
  - Low threat environment
  - Available funding may reduce JTC participation/increase risk
- UFL – HIGH
  - First major exercise with significantly upgraded AWSIM, JQUAD+, and CBS
  - High threat environment
  - High expectations from UFL ’03 performance
  - Significant changes in AOC complicates planning, integration, and testing

RSO&I Issues

- Currently no funding for KASC stand-up during RSO&I
  - Expect funding, but do not know from whom
- Low risk environment may be changing
  - Efforts ongoing by 7AF to increase M&S participation w/o additional funding
  - Maximize use of currently planned systems (AWSIM and JQUAD+)
- Strategic Airlift won't be flown in AWSIM
  - Current plan is to use GES and JDLM
  - Eliminates releasability issues
  - Strategic Airlift still provided if no RSO&I funding
  - Backup plan has strategic airlift flown in AWSIM
- RSO&I is the First Use event for JTC 04
  - Risk Mitigation Approach
    - Additional testing before and during RSO&I
    - Must include sufficient time to find and fix s/w problems

RSO&I Schedule



RSO&I Schedule

March 2004

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

Functional Testing

Load

Backup Load Test

Test

Operational Testing & S/W Fixing

Training

Practice

Intel Prep 0001-0800

UFL '04

- Significant changes from '03
  - Establishes use of "current year" JTC
  - Severely reduces time from First Use to UFL
    - Increases the importance of RSO&I and Load Test
  - Start of JTC migration towards Linux and HLA
  - First significant AOC training event after installation of AOC Block 10.1
- Results
  - Very high expectations for UFL '04
    - Outstanding performance at UFL '03
    - AOC wants to exercise the Block 10.1 systems
  - Increased importance of JTC stability and robustness

JQUAD+

- ***Currently no JIOC funding past FY04***
- JQUAD+ is a critical need
  - JQUAD currently provides JTIDS, ELINT, SIGINT, IIR/IPIR, MISREP, etc
  - TACSIM is not a suitable replacement
- USAF dependent on JQUAD+ to provide key ISR functions to support training
  - Must identify funding or alternative solution
  - This must be a priority for AFAMS

AOC Training

- The Korean Air Operations Center (KAOC) requires improved M&S support for training
  - 7AF/CC guidance to staff is to find solutions
  - Active Senior Leadership involvement
  - Yearly UFL does not meet the KAOC training needs
  - KAOC having difficulties articulating the specific requirements due to a lack of M&S expertise

AOC Training

- Current Role of M&S in AOC Training
  - C2TIG's C2WSPTT
    - Used for TBMCS Part Task Training
    - Part of AOC Training Baseline
  - AFAMS's AFMSTT
    - Not part of the AOC Training Baseline
    - Trains AOCs only as a by-product of exercises
      - Not tailored to meet the training needs of the AOC
- ESC/AC is actively working training requirements
  - Focus on identifying and standardizing every task within the AOC
  - Good initial step in identifying what tasks could be supported by M&S
  - ESC/AC is <u>not</u> working M&S requirements beyond C2WSPTT

POC for ESC/AC is Ms. Meredith Briscolino, ESC/AC-OL-L, AOC WS Training Program Manager, I

AOC Training (Con't)

- Should M&S have a larger role in AOC training?
  - ABSOLUTELY
  - Actual combat is not the time to conduct KAOC training
    - If hostilities break out, North Korea will not provide the AOC time to "train-up"
  - As formal training is established, M&S tools should be developed for the school house, position level, team, and organizational training
    - So far, C2TIG is the only game in town for tailored AOC training
- *What is AFAMS role in AOC training?*

KASC Roadmap

- Continue to focus on primary mission of supporting JCS directed exercises
  - This is what we are (under)funded and manned to accomplish
- Continue to work with the AOC to define the M&S requirements for AOC training
  - Solution dependent on M&S community ability to meet the needs
- USFK M&S will change as KBSC moves south from Yongsan Garrison in Seoul
  - Long-term USFK M&S facilities and capabilities undefined

Summary

- UFL ’03 raised the bar for M&S performance expectations
- KBSC and KASC are trying to become better synchronized with the developers
  - Reduced number of baselines – good for developers
  - Increased risk due to reduced timelines – bad for Sim Centers
- RSO&I and UFL ’04 will be a significant M&S challenge for KASC and the developers
- ***JQUAD+ needs to be funded past FY04***
- AFAMS has a great opportunity to influence AOC training with improved M&S tools
  - Validated need exists (AOC ORD)
  - Potential long-term funding stream
  - Requires a plan and ACC/DOY and ESC/AC buy-in

Any Questions